Lloyd's
Register

Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk, August 2013

Notice No. 2

Effective Date of Latest Amendments:

See page 1

Issue date: December 2013

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RULES AND REGULATIONS FOR THE CONSTRUCTION AND CLASSIFICATION OF SHIPS FOR THE CARRIAGE OF LIQUEFIED GASES IN BULK, *August 2013*

Notice No. 2

This Notice contains amendments within the following Sections of the *Rules and Regulations for the Construction of Ships for the Carriage of Liquefied Gases in Bulk, August 2013.* The amendments are effective on the dates shown:

Chapter	***Section***	***Effective date***
5	5.1, 5.3, 5.5	1 January 2014

The *Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk, August 2013* are to be read in conjunction with this Notice No. 2. The status of the Rules is now:

Rules for Ships for Liquefied Gases	Effective date:	August 2013
Notice No. 1	Effective date:	1 September 2013
Notice No. 2	Effective date:	1 January 2014

All text which does not appear in the IGC Code is prefixed by ‘LR’ and thick vertical lines (*see* LR II.3)

Chapter 5

Process Pressure Vessels and Liquid, Vapour and Pressure Piping Systems

Effective date 1 January 2014

5.1 General

Plans

LR 5.1-02 Plans showing filling, discharging, venting and inerting pipe arrangements, including full details of each size and type of valve intended to be used at working temperatures below –55°C, together with particulars of the intended cargo, maximum vapour pressure and minimum liquid temperature, are to be submitted.

5.3 Type tests on piping components

LR 5.3-01 To satisfy the requirements of 5.3.1 and 5.3.2.1, for valves fitted to cargo and process piping systems, each size and type of valve is to be approved ~~through~~ and the required prototype testing ~~and~~ is to include a hydrostatic test of the valve body at a pressure equal to 1,5 times the design pressure, ~~a seat and stem leakage test at a pressure equal to 1,1 times the design pressure~~ and cryogenic testing consisting of valve operation or safety valve set pressure, and leakage verification. In addition, for valves other than safety valves, a seat and stem leakage test at a pressure equal to 1,1 times the design pressure is to be conducted. Prototype testing for all valves to the minimum design temperature or lower and to a pressure not lower than the maximum design pressure for the valves is to be completed to the satisfaction of the LR Surveyor.

(*Part only shown*)

LR 5.3-03 All valves are to be tested at the manufacturer's works to the satisfaction of the LR Surveyor. Testing is to include a hydrostatic test of the valve body at a pressure equal to 1,5 times the design pressure for all valves, and a seat and stem leakage test at a pressure equal to 1,1 times the design pressure for valves other than safety valves. In addition, cryogenic testing consisting of valve operation and leakage verification for a minimum of 10 per cent of each type and size of valve for valves other than safety valves intended to be used at a working temperature below –55°C. The set pressure of safety valves is to be tested at ambient temperature.

Alternatively, if so requested by the relevant manufacturer, the certification of a valve may be issued subject to the following:

(c) a quality control plan is submitted which contains a provision to subject each valve to a hydrostatic test of the valve body at a pressure equal to 1,5 times the design pressure for all valves and seat and stem leakage test at a pressure equal to 1,1 times the design pressure for valves other than safety valves~~;~~. The set pressure of safety valves is to be tested at ambient temperature. ~~the~~The manufacturer is to maintain records of such tests; and

(d) cryogenic testing consisting of valve operation and leakage verification for a minimum of 10 per cent of each type and size of valve for valves other than safety valves intended to be used at a working temperature below –55°C to the satisfaction of the LR Surveyor.

5.5 Testing of piping

5.5.4 All piping systems including all valves, fittings and associated equipment for handling cargo or vapours should be tested under normal operating conditions not later than at the first loading operation.

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